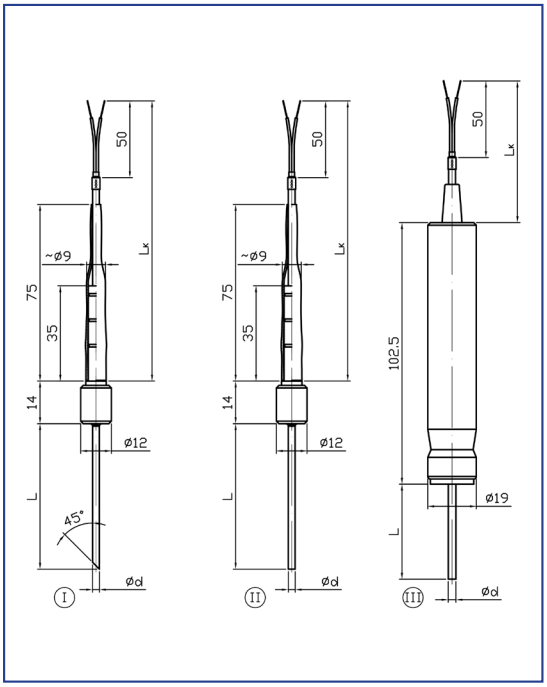
TOP-SpPKbm-33



Resistance Thermometer Pt100 with connection cable special

Resistance thermometer miniature type TOP-SpPKbm-33 with connection cable of silicone, teflon or glass fibre insulation has been designed for temperature measurements up to +400°C.

Miniature execution allows fast and precise measurement in various environments and places. Small dimensions allows easy and fast installation of thermometer. Resistor can be of 2, 3 or 4 -wire configuration.

Type	Execution	Version
TOP-SpPKbm-33	Basic - acc to catalog card	I or II or III
TOP-SpPKbm-33/ExiM1	Intrinsic for mining purposes – acc to Atex	
TOP-SpPKbm-33/Exi	Intrinsic – acc to Atex	

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire config.
1xPt100 / 2xPt100	standard / *shockproof	acc. EN-60751	-50°C..+400°C / *(-50°C..+400°C)	B	8 mA	2, 3, 4 wire
			-50°C..+400°C / *(-50°C..+300°C)	A	5 mA	3, 4 wire
			-50°C..+250°C / *(0°C..+150°C)	1/3B (AA)	3 mA	

Protection tube diameter d	Material acc. DIN/AISI	Length L [mm]
ø2.2, ø3, ø3,5, ø4	1.4571/316Ti	on request

Configuration	Dimension	Connection Cable Type	Insulation	Temp. limits
2 wire	ø 2,9	L2GGD-2x0,22mm2	glass fibre, glass fibre, screen	+400°C
3, 4 wire	ø 4,3	L4TS-4x0,22mm2	teflon, silicone	+180°C
3, 4 wire	ø 5,2	L4TS(L)-4x0,25mm2	teflon, silicone	+180°C
3, 4 wire	ø 4,4	L4TDS-4x0,25mm2	teflon, screen, silicone	+180°C
3, 4 wire	ø 4,0	L4TFDT-4x0,22mm2	teflon, film, screen, teflon	+260°C
3 wire	ø 3,8	L6TT-6x0,22mm2	teflon, teflon	+260°C

Non-standard models available.

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Ordering Information

TOP-SpPKbm-33	A	B	C	D	E	F	G	H	I	J

A	Execution
I	Basic - with sharp tip
II	Basic - with flat tip
III	Basic - with teflon handle
I/ExiM1	Intrinsic safe for mining purposes - with sharp tip
II/ExiM1	Intrinsic safe for mining purposes - with flat tip
III/ExiM1	Intrinsic safe for mining purposes - with teflon handle
I/Exi	Intrinsic - with sharp tip
II/Exi	Intrinsic - with flat tip
III/Exi	Intrinsic - with teflon handle

B	Resistor
1xPt100	Single Pt100
2xPt100	Double Pt100

C	Class
B	B
A	A
1/3B	1/3B (AA)

D	Protection tube diameter d
2,2	d= 2,2 mm
3	d= 3 mm
3,5	d= 3,5 mm
4	d= 4 mm

E	Protection tube length L
	specify in mm

F	Protection tube material
1.4571	1.4571 / 316Ti

G	Lead wire configuration and cable type
2p-L2GGD	2 wire (L2GGD-2x0,22mm2)
3p-L4TS	3 wire (L4TS-4x0,22mm2)
4p-L4TS	4 wire (L4TS-4x0,22mm2)
3p-L4TS(L)	3 wire (L4TS-4x0,25mm2)
4p-L4TS(L)	4 wire (L4TS-4x0,25mm2)
3p-L4TDS	3 wire (L4TDS-4x0,25mm2)
4p-L4TDS	4 wire (L4TDS-4x0,25mm2)
3p-L4TFDT	3 wire (L4TFDT-4x0,22mm2)
4p-L4TFDT	4 wire (L4TFDT-4x0,22mm2)
3p-L6TT	3 wire (L6TT-6x0,22mm2)

H	Cable length L_K
	specify in mm

I	Operating temperature
	specify in °C

J	Version
Z	Standard (ceramic wire wound element)
W	Shockproof (thin-film element)

Ordering Example

TOP-SpPKbm-33-II-1xPt100-A-4-150-1.4571-3p-L4TS-2000-160-Z

stands for: Resistance thermometer with flat tip, with resistor 1xPt100 class A, protection tube diameter ø4mm, length L=150mm, material 1.4571, configuration 3-wire, cable type L4TS, length Lk=2000 mm, operating temperature up to 160°C, standard sensor version.

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